



# **STIC Search Report**

## **EIC 1700**

**STIC Database Tracking Number: 203123**

**TO: Colleen Cooke**  
**Location: REM 9A49**  
**Art Unit: 1754**  
**September 27, 2006**

**Case Serial Number: 10/701020**

**From: Mrs. Kendra Banks**  
**Location: EIC 1700**  
**REMSSEN 4B28**  
**Phone: 571/272-2516**  
**Kendra.Banks@uspto.gov**

### **Search Notes**

No Cases Reported

US 6,419,890

**Banks, Kendra**

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**From:** Cooke, Colleen  
**Sent:** Wednesday, September 27, 2006 2:40 PM  
**To:** STIC-EIC1700  
**Subject:** litigation search for US 6,312,494 - (application 09/610,476)

Hello,

I need a litigation search of US Patent 6,419,890 for the re-issue 10/701,020.

Thanks  
Colleen Cooke  
AU 1754  
REM 9A49  
571-272-1170

**Current session 27/09/2006**

Query/Command : N

..FILE / ..INFO / ..GUIDE

**Query/Command : FILE PLUSPAT**

QUESTEL - Time in minutes : 0,64

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.72 USD
Cost estimated for the last database search :	0.72 USD
Estimated total session cost :	0.72 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database  
Individual records for each Country or Patent Office  
Coverage: 77 patenting authorities; start dates vary from 1800 forward  
For PlusPat Fact Sheet, Pricing and FAQ, see the Questel.Orbit website  
Citations and FI/F-term classification available for Japanese documents  
Last update of file: 2006/09/20 (YYYY/MM/DD) 2006-37/UP (last update)

Search statement 1

**Query/Command : US6419890/PN****\*\* SS 1: Results 1**

Search statement 2

**Query/Command : PRT FULL NONSTOP LEGALALL**

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*1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image*

PN	-	US6419890 B1 20020716 [US6419890]
TI	-	(B1) SOX tolerant NOX trap catalysts and methods of making and using the same
PA	-	(B1) ENGELHARD CORP (US)
PA0	-	Engelhard Corporation, Iselin NJ [US]
IN	-	(B1) LI YUEJIN (US)
AP	-	US63422800 20000809 [2000US-0634228]
PR	-	US63422800 20000809 [2000US-0634228]

**IC** - (B1) B01D-053/54 B01D-053/60  
**ICAA** - B01D-053/94 [2006-01 A - I R M EP]; B01J-023/00 [2006-01 A - I R M EP];  
 B01J-023/89 [2006-01 A - I R M EP]  
 B01J-023/42 [2006-01 A - N R M EP]  
**ICCA** - B01D-053/94 [2006 C - I R M EP]; B01J-023/00 [2006 C - I R M EP]; B01J-  
 023/89 [2006 C - I R M EP]  
 B01J-023/42 [2006 C - N R M EP]  
**EC** - B01D-053/94F2C  
 B01J-023/00S  
 B01J-023/89G4  
**PCL** - ORIGINAL (O) : 423239100; CROSS-REFERENCE (X) : 423213500  
 423244100 502080000 502084000 502302000 502303000 502304000  
 502326000 502327000  
**DT** - Corresponding document  
**CT** - US5407652; US5705136; US5727385; US5750082; US5753192; US5758489;  
 US5795553; US5910097; US6338831; EP589393; EP0640379; EP669157;  
 EP764459; EP764460; EP778072; EP0945165; EP0945608; WO9605140;  
 WO9748480; WO0032300  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**AB** - The present invention relates to sulfur tolerant catalyst composites useful for  
 reducing contaminants in exhaust gas streams, especially gaseous streams  
 containing sulfur oxide contaminants. More specifically, the present invention is  
 concerned with improved NOx trap catalysts for use in diesel engines as well as  
 lean burn gasoline engines. The sulfur tolerant NOx trap catalyst composites  
 comprise a platinum component, a support, a NOx sorbent component, and a  
 spinel material prepared by calcining an anionic clay material represented by the  
 formula  $M_m N_n (OH)_{(2m+2n)} Aa.bH_2 O$ , wherein the formula is defined herein.  
 The sulfur tolerant NOx trap catalyst composites are highly effective with a  
 sulfur containing fuel by trapping sulfur oxide contaminants which tend to  
 poison conventional NOx trap catalysts used to abate other pollutants in the  
 stream. The sulfur tolerant NOx trap catalyst composites are suitable for diesel  
 engines because the composites can be regenerated at moderate temperatures  
 with rich pulses, rather than at high temperatures.  
**UP** - 2002-29

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1 / 1 LGST - ©EPO

**PN** - US6419890 B1 20020716 [US6419890]  
**AP** - US63422800 20000809 [2000US-0634228]  
**ACT** - 20000920 US/AS-A  
 ASSIGNMENT  
 OWNER: ENGELHARD CORPORATION 101 WOOD AVENUE, P.O. BOX  
 77; EFFECTIVE DATE: 20000914  
 ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: LI,  
 YUEJIN; REEL/FRAME: 011226/0308  
  
 20030902 US/RF-A  
 REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030612

UP - 2004-30

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1/1 CRXX - ©CLAIMS/RRX

PN - 6,419,890 A 20020716 [US6419890]

PA - Engelhard Corp

ACT - 20030612 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20030902

REISSUE REQUEST NUMBER: 10/460009

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1754

Reissue Patent Number:

Search statement 2

## Query/Command : FILE INPADOC

LGST - Time in minutes : 0,01

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.01 USD
Records displayed and billed :	1
Estimated cost :	0.68 USD
Cost estimated for the last database search :	0.69 USD
Estimated total session cost :	1.41 USD

CRXX - Time in minutes : 0,03

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.05 USD
Records displayed and billed :	1
Estimated cost :	5.80 USD
Cost estimated for the last database search :	5.85 USD
Estimated total session cost :	7.26 USD

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.02 USD
Cost estimated for the last database search :	0.02 USD
Estimated total session cost :	7.28 USD

PLUSPAT - Time in minutes : 0,32

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.90 USD
Records displayed and billed :	1
Estimated cost :	1.49 USD
Cost estimated for the last database search :	2.39 USD
Estimated total session cost :	9.67 USD

Selected file: INPADOC

INPADOC International Patent Documentation Center

Source: European Patent Office - EPIDOS

Individual publication stage records for each Patenting Authority

Coverage: 77 patent offices ; start dates vary from 1968 forward

Current through weekly update 2006-38/up ; last update 2006/09/22

Important Notice regarding the INPADOC file: after September 30th,  
all INPADOC searches will be directed to the PlusPat file. Please  
see Questel.Orbit website for additional information on INPADOC.

Search statement 1

Query/Command : FAM US6419890/PN

1 Patent Groups

**\*\* SS 1: Results 8**

Search statement 2

Query/Command : FAMSTATE NONSTOP

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1 / 8 INPADOC - ©INPADOC

PN - AU 200183063 A5 20020218 [AU200183063]  
TI - SOX TOLERANT NOX TRAP CATALYSTS AND METHODS OF MAKING  
AND USING THE SAME  
IN - LI YUEJIN  
PA - ENGELHARD CORP  
AP - AU 83063/01-A 20010731 [2001AU-0083063]  
PR - US 634228/00-A 20000809 [2000US-0634228]  
WO 200124033/01(US)-W 20010731 [2001WO-US24033]  
IC - B01D-053/94; B01J-023/00; B01J-023/42

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2 / 8 INPADOC - ©INPADOC

PN - EP 1307279 A2 20030507 [EP1307279]  
TI - SOX TOLERANT NOX TRAP CATALYSTS AND METHODS OF MAKING  
AND USING THE SAME  
LA - ENG  
IN - LI YUEJIN [US]  
PA - ENGELHARD CORP [US]  
AP - EP 01961828/01-A 20010731 [2001EP-0961828]  
PR - WO 200124033/01(US)-W 20010731 [2001WO-US24033]  
US 634228/00-A 20000809 [2000US-0634228]

IC - B01D-053/94; B01J-023/00; B01J-023/42  
DS - AT\* BE\* CH\* CY\* DE\* DK\* ES\* FI\* FR\* GB\* GR\* IE\* IT\* LI\* LU\* MC\*  
NL\* PT\* SE\* TR\*

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1 / 1 LEGALI - ©EPO

PN - EP1307279 A2 20030507 [EP1307279]  
AP - EP01961828 20010731 [2001EP-0961828]  
ACTE - 20030507 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR  
  
20030507 EP/AX-A [+]  
EXTENSION OF THE EUROPEAN PATENT TO  
AL LT LV MK RO SI  
  
20030507 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 20030225  
  
20040317 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20040202  
  
20041222 EP/18D-A [-]  
DEEMED TO BE WITHDRAWN  
EFFECTIVE DATE: 20040615  
UP - 2004-52

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3 / 8 INPADOC - ©INPADOC

PN - JP 2004505751 T2 20040226 [JP2004505751]  
AP - JP 2002517194/02-A 20010731 [2002JP-0517194]  
PR - US 634228/00-A 20000809 [2000US-0634228]  
WO 200124033/01(US)-W 20010731 [2001WO-US24033]  
IC - B01J-023/89; B01D-053/86; B01D-053/94; B01J-037/02; F01N-003/10

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4 / 8 INPADOC - ©INPADOC

PN - US 6419890 BA 20020716 [US6419890]  
TI - SOX TOLERANT NOX TRAP CATALYSTS AND METHODS OF MAKING  
AND USING THE SAME  
IN - LI YUEJIN [US]  
PA - ENGELHARD CORP [US]  
AP - US 634228/00-A 20000809 [2000US-0634228]  
PR - US 634228/00-A 20000809 [2000US-0634228]  
IC - B01D-053/54; B01D-053/60

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1 / 1 LEGALI - ©EPO

**PN** - US6419890 B1 20020716 [US6419890]  
**AP** - US63422800 20000809 [2000US-0634228]  
**ACTE** - 20000920 US/AS-A  
 ASSIGNMENT  
 OWNER: ENGELHARD CORPORATION 101 WOOD AVENUE, P.O. BOX  
 77; EFFECTIVE DATE: 20000914  
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:LI,  
 YUEJIN;REEL/FRAME:011226/0308  
  
 20030902 US/RF-A  
 REISSUE APPLICATION FILED  
 EFFECTIVE DATE: 20030612  
**UP** - 2004-30

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## 5 / 8 INPADOC - ©INPADOC

**PN** - WO 200211866 A2 20020214 [WO200211866]  
**TI** - SOX TOLERANT NOX TRAP CATALYSTS AND METHODS OF MAKING  
 AND USING THE SAME  
**LA** - ENG  
**IN** - LI YUEJIN  
**PA** - ENGELHARD CORP [US]  
**AP** - WO US 200124033/01(US)-A 20010731 [2001WO-US24033]  
**PR** - US 634228/00-A 20000809 [2000US-0634228]  
**IC** - B01D-053/94; B01J-023/00; B01J-023/42  
**DS** - AE\* AL\* AM\* AT\* AU\* AZ\* BA\* BB\* BG\* BR\* BY\* CA\* CH\* CN\* CR\*  
 CU\* CZ\* DE\* DK\* DM\* EC\* EE\* ES\* FI\* GB\* GD\* GE\* GH\* GM\* HR\*  
 HU\* ID\* IL\* IN\* IS\* JP\* KE\* KG\* KP\* KR\* KZ\* LC\* LK\* LR\* LS\* LT\*  
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 RU\* SD\* SE\* SG\* SI\* SK\* SL\* TJ\* TM\* TR\* TT\* TZ\* UA\* UG\* UZ\* VN\*  
 YU\* ZA\* ZW\* GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY  
 KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC  
 NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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## 1 / 1 LEGALI - ©EPO

**PN** - WO200211866 A2 20020214 [WO200211866]WO200211866 A3 20020516  
 [WO200211866]  
**AP** - WOUS0124033 20010731 [2001WO-US24033]  
**ACTE** - 20020214 WO/AK [+]  
 DESIGNATED STATES CITED IN A SUBSEQUENTLY PUBLISHED  
 SEARCH REPORT  
 AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM  
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
 LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO



RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

20020214 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A  
SUBSEQUENTLY PUBLISHED SEARCH REPORT

GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU  
TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

20020410 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS  
DESIGNATED IN THIS APPLICATION

20020516 WO/AK [+]

DESIGNATED STATES CITED IN A SUBSEQUENTLY PUBLISHED  
SEARCH REPORT

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RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

20020516 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A  
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20030207 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:

JP 2002517194 [2002JP-0517194]

20030618 WO/REG; DE/8642 [-]

DE: IMPACT ABOLISHED FOR DE  
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UP - 2003-35

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6 / 8 INPADOC - ©INPADOC

PN - WO 200211866 A3 20020516 [WO200211866]  
TI - SOX TOLERANT NOX TRAP CATALYSTS AND METHODS OF MAKING  
AND USING THE SAME  
LA - ENG  
IN - LI YUEJIN  
PA - ENGELHARD CORP [US]  
AP - WO US 200124033/01(US)-A 20010731 [2001WO-US24033]  
PR - US 634228/00-A 20000809 [2000US-0634228]  
IC - B01D-053/94; B01J-023/00; B01J-023/42  
DS - AE\* AL\* AM\* AT\* AU\* AZ\* BA\* BB\* BG\* BR\* BY\* CA\* CH\* CN\* CR\*

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1 / 1 LEGALI- ©EPO

PN - WO200211866 A2 20020214 [WO200211866]WO200211866 A3 20020516  
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AP - WOUS0124033 20010731 [2001WO-US24033]

ACTE - 20020214 WO/AK [+]  
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20030207 WO/ENP  
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20030618 WO/REG; DE/8642 [-]  
DE: IMPACT ABOLISHED FOR DE  
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UP - 2003-35

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7 / 8 INPADOC - ©INPADOC

PN - WO 200211866 B1 20020725 [WO200211866]  
TI - SOX TOLERANT NOX TRAP CATALYSTS AND METHODS OF MAKING  
AND USING THE SAME  
CATALYTISEURS PIEGEANT LE NOX ET TOLERANTS AU SOX ET  
PROCEDES DE FABRICATION ET D'UTILISATION DE CES DERNIERS  
LA - ENG  
IN - LI YUEJIN  
PA - ENGELHARD CORP [US]  
AP - WO US 200124033/01(US)-A 20010731 [2001WO-US24033]  
PR - US 634228/00-A 20000809 [2000US-0634228]  
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1 / 1 LEGALI - ©EPO

PN - WO200211866 A2 20020214 [WO200211866]WO200211866 A3 20020516  
[WO200211866]  
AP - WOUS0124033 20010731 [2001WO-US24033]  
ACTE - 20020214 WO/AK [+]  
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20020410 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS  
DESIGNATED IN THIS APPLICATION

20020516 WO/AK [+]

DESIGNATED STATES CITED IN A SUBSEQUENTLY PUBLISHED  
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20020516 WO/AL [+]

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TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

20030207 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
JP 2002517194 [2002JP-0517194]

20030618 WO/REG; DE/8642 [-]

DE: IMPACT ABOLISHED FOR DE  
<DE>

UP - 2003-35

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8 / 8 INPADOC - ©INPADOC

PN - ZA 200301009 A 20040204 [ZA200301009]

TI - SOx tolerant NOx trap catalysts and methods of making and using the same.

IN - LI YUEJIN

PA - ENGELHARD CORP

AP - ZA 1009/03-A 20030205 [2003ZA-0001009]

PR - US 634228/00-A 20000809 [2000US-0634228]

IC - B01D-000/00; B01J-000/00

Search statement 2

PATNO IS 6419890

DATE: SEPTEMBER 27, 2006  
LIBRARY: PATENT  
FILE: ALL

Your search request is:  
PATNO IS 6419890

Number of PATENTS found with your search request through:  
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.  
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.  
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 6419890 , July 16, 2002 , SOX tolerant NOX trap catalysts and methods of making and using the same, Li, Yuejin - Edison, New Jersey, United States (US), 634228 (09), September 20, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., ENGELHARD CORPORATION 101 WOOD AVENUE, P.O. BOX 770ISELIN, NEW JERSEY, 08830, Reel and Frame Number: 011226/0308, Engelhard Corporation, Iselin, New Jersey, United States (US), United States company or corporation (02)

CORE TERMS: catalyst, sulfur, oxide, stream, composite, trap, platinum, rich, gaseous, layer ...

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6419890

July 16, 2002

SOX tolerant NOX trap catalysts and methods of making and  
using the same

REISSUE: June 12, 2003 - Reissue Application filed Ex. Gp.: 1754; Re. S.N.  
10/460,009 (O.G. September 2, 2003)

APPL-NO: 634228 (09)

FILED-DATE: August 9, 2000

GRANTED-DATE: July 16, 2002

CORE TERMS: catalyst, sulfur, oxide, stream, composite, trap, platinum, rich,  
gaseous, layer ...

6419890 OR 6,419,890

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.



6419890 OR 6,419,890

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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[Search](#) > [Patent Search](#) > Searching

Patent Search 6419890 9/27/2006

No cases found.

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(Charges for search still apply)

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